Claims

1. A method for creating active finite elements
comprising the steps of:

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a) constructing the active finite elements with a
combinations of motor elements, dashpot elements and
spring elements,

b) defining the motor element using a time series
10 function, and

c) constructing a model with the active finite
elements, and

d) analyzing the model using a finite element code.

15 2. The method of Claim 1 wherein said finite element
code is a conventional code.

3. The method of Claim 1 wherein said finite elements
are one-dimensional or two- dimensional or three-
20 dimensional.

4. The method of Claim 1 wherein the shapes of said
finite elements are linear, triangular, rectangular,
quadrilateral, pentagonal, hexagonal, octagonal,

decagonal, polygonal, tetrahedral, pentahedral

hexahedral, octahedral, decahedral or polyhedral.

5.   The method of Claim 1 wherein the types of said

5   finite elements are solid continuum elements like bar,

plane stress or plane strain elements, or structural

elements like beam, plate, truss, membrane, shell or

frame elements, or other special-purpose elements.